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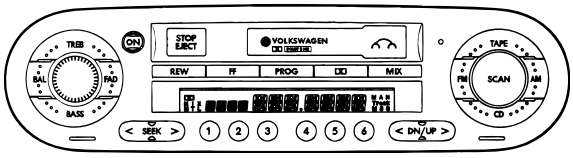
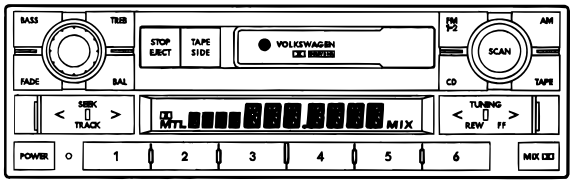
Service Manual



PU-1569A



PU-1582A

VOLKS WAGEN
Automobile Genuine
AM/FM Radio Cassette Stereo

Model PU-1569A-C
(Genuine No. 1CO 035 180
Illumination : Red)

Model PU-1582A-C
(Genuine No. 1JO 035 180A
Illumination : Red)

Model PU-1582A-D
(Genuine No. 1JO 035 180
Illumination : Green)

■SPECIFICATIONS

Radio section

Tuning system: PLL Frequency synthesizer system
Receive range: AM 530kHz to 1,710kHz
FM 87.9MHz to 107.9MHz
Intermediate frequency:
AM 450kHz
FM 10.7MHz
Quieting sensitivity: AM Less than 38dBμ(at 26dB S/N)
FM Less than 10dBμ(at 30dB S/N)
Separation: FM More than 26dB
Auto tuning stop sensitivity:
AM 42±3dBμ
FM 23±3dBμ

Tape section

Reproducting system:
4 track 2 program
2 channel stereo system
Wow and flutter: Less than 0.3%(W.R.M.S)
Separation: More than 40dB
Cross talk: More than 40dB
S/N ratio: Normal tape(120μs)
More than 48dB(DOLBY B NR OFF)
More than 56dB(DOLBY B NR ON)
Metal tape(70μs)
More than 50dB(DOLBY B NR OFF)
More than 58dB(DOLBY B NR ON)

FF/REW time: 120sec.(C-60)

General

Output power: 40W×4(MAX)
Power supply voltage:
DC13.2V(10.8V to 15.6V)
Negative ground
Consumptive current:
Less than 10A(MAX)
Dimensions(mm): 179(W)×50(H)×159(D)
Weight: 1.3kg

※ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
※ "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
※ Specifications and design are subject to change without notice for further improvement.

■COMPONENTS

PU-1569A-C/PU-1582A-C/PU-1582A-D

Main unit	————	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection,make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage.Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable.The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction,use of insulation tubes,bonding,gaps to PWB,etc,is involved.The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts.Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair,the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws,parts and wires are put back securely in their original position after repair.Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off.If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.If extensive damage is caused due to negligence of repair,the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance.Always replace them with new ones.(The chip parts include resistors,capacitors,diodes,transistors,etc).The negative pole of tantalum capacitors is highly susceptible to heat,so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron,make sure that the iron tip temperature is around 270℃.Take care not to apply the iron tip repeatedly(more than three times)to the same patterns.Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement.Recheck all work before you apply power to the unit.

■COMPUTER ANTI-THEFT SYSTEM

This unit has a built-in Computer Anti-Theft System(CATS) whitch makes the radio inoperative if power to the unit is interrupted for any reason whatsoever(including disconnection and reconnection of the car battery).The radio will remain inoperative unless you enter the correct CATS code number.

Release CATS

1. Press the power button to turn on the power.
   ("SAFE"appears on the display,and "1000" appears 3 seconds later.)
2. Press 1,2,3 or 4 button the number of times necessary for the secret number(CATS code) and display the code number.
3. Press the "MANUAL UP" or "SEEK UP" button more than 2 seconds.
   If the input code number is correct,the radio turn on.A radio frequency appears on the display.
4. If the input code number is incorrect,"SAFE" flashes on the display,and "1000" re-appears 3 seconds later.Input the correct code number.and press the "MANUAL UP" or "SEEK UP" button more than 2 seconds.

   If you input an incorrect code number two times in succession,it becomes impossible to input the code for one hour.Wait one hour with the power on("SAFE" remains on the display).After one hour,"1000" re-appears on the display.and input the correct code number.

■ADJUSTMENTS

Item	Procedure	Measuring instrument
Limiter	1. Input a 98.1MHz/65dBμ(1kHz 30% MOD) signal. 2. Set an output level to 0dB(=775mV) with main volume. 3. Adjust VR102 so that the output is −3±1dB when SSG output is set 7dBμ.	SSG Milli volt meter
FM SD	1. Connect TP101(+5V) to TP100(RF-MUTE). 2. Input a 107.9MHz/21dBμ(1kHz 30% MOD) signal. 3. Adjust VR101 so that an output of TP102 is just hight level.	SSG Oscilloscope
AM SD	1. Connect TP101(+5V) to TP100(RF-MUTE). 2. Input a 1000kHz/42dBμ(1kHz 30% MOD) signal. 3. Adjust VR100 so that an output of TP103 is just hight level.	SSG Oscilloscope
Dolby level	1. Insert a Dolby level test tape(400Hz,200nWb/m). 2. Adjust VR600(L)/VR601(R) so that an output of TP600(L)/TP601(R) is 388mV±1dB.	Dolby level tape Milli volt meter

■ EXPLANATION OF IC

■ MB89677ARPF-G-147 BND 052-3137-01 Main Micro Computer

Outward Form

80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	POWER/EJECT	I	Used to judge POWER KEY or EJECT key when POWER/EJECT SW changes. When "Hi" it is EJECT key
2	CD CLK	I	Clock input terminal from CD A/C
3	RX	I	Data input terminal from self-diagnostic tester. Connected to IC (U537) for diagnosis
4	TX	O	Data output terminal to self-diagnostic tester. Connected to IC (U537) for diagnosis. Used in Nch output.
5	SCA DATA	I/O	DATA input/output terminal between cassette mechanism
6	BEEP	O	Beep signal output terminal. Outputs 0.6kHz for 100msec
7	SCA CLK OUT	O	Clock output terminal to cassette mechanism
8 ≀ 10	N.C.	O	Not in use
11 12	MODE 0 MODE 1	I	Connected to GND to designate internal ROM mode
13 14	XO XI	O I	Connection terminal of crystal oscillator. Connects 8MHz crystal.
15	VSS	–	15 GND terminal
16	RST	I	External reset input terminal
17	MAIN 5V	O	5V power supply control terminal
18	MAIN 14V	O	14V power supply control terminal
19	REM AMP ON	O	Controlling terminal of external amplifier. "Hi" output in POWER ON
20	AUDIO MUTE	O	Audio mute control signal output terminal. "Lo" in MUTE ON.
21	VOL DATA	O	Data output terminal to electronic volume IC "M62419FP"
22	VOL CLK	O	Clock output terminal to electronic volume IC "M62419FP"
23	TAPE ON	O	Turns this port to "Lo" in "TAPE PLAY" or "NO TAPE"
24	PHANTOM ON	O	Turns this port to "Hi" in antenna diagnosis
25	BOSE STB	O	Output terminal of the strove to electronic volume IC "TC9212F"
26	BOSE ON	O	"Hi" output in BOSE compliant
27	EQ CE	O	CE, data, clock output terminal for EQ IC (LC3100M)
28 29	EQ BOSE DATA EQ BOSE CLOCK	O	Data and clock output terminal for "LV3100M" and "TC9212F"
30 31	VOLUME 2 VOLUME 1	I	Rotary switch input terminal
32	SK	O	Clock output terminal to EEPROM "NM93C46" and PLL IC "LC72191"
33	DO	O	Data output terminal to EEPROM "NM93C46" and PLL IC "LC72191"
34	PLL DI	I	Data input terminal from PLL IC "LC72191"
35	E²PROM CS	O	Chip select output terminal for E²PROM "NM93C4Y6
36	PLL CE	O	Chip enable output terminal for PLL IC "LC72191"
37	AM SD	I	SD input terminal for AM. "Hi" means "stations detected"
38	FM SD	I	SD input terminal for FM. "Hi" means "stations detected"
39	SCA ENABLE	O	"Lo" output in data transmission to cassette mechanism
40	EEPROM DI	O	Data input terminal from E²PROM "NM93C46"
41	SCA ME/FE	I	Metal information input terminal. "Hi" input when metal tape
42	TAPE TRACK SW	O	Output terminal to inform DOLBY IC of running direction of cassette tape. When winding tape (A-side) forward, Hi.
43	TAPE DOLBY ON	O	DOLBY OFF: "Hi", DOLBY ON: "Lo"
44	APC DET	I	Detection signal input terminal for blanks between music. When no music detected, Lo.
45 46 47 48	FR CLIP ON RR CLIP ON RL CLIP ON FL CLIP ON	O	Control of clip input for speaker. "Hi" output to speakers which detects clip.
49	CATS LED	O	CATS LED set to flash every 2 seconds after ACC OFF
50	EE INITIAL	I	When this port is "Lo" for 2 seconds it makes initial setup of the data within EEPROM except CATS codes
51	MAIN CLK OUT	O	Clock output terminal to sub micro computer
52	MAIN DATA OUT	O	Data output terminal to sub micro computer
53	SUB RESET	O	Reset output terminal to sub micro computer
54	CONTROL+	I	Input terminal to detect whether REM AMP ON terminal is shorted. "Lo" when shorted
55	VCC	–	Power supply input terminal
56	SUB DATA IN	I	Data input terminal from sub micro computer
57	CD DATA OUT	O	Command data transmission terminal to CD A/C
58	VSS	–	GND terminal
59	ENABLE OUT	O	Output terminal of the ENABLE to sub micro computer
60	AMP ON	O	Internal amplifier control terminal. "Hi" output in AMP ON. "Lo" when BOSE compliant
61	POWER/EJECT SW	I	Turns "Lo" when POWER SW or EJECT SW is pressed
62	ACC IN	I	ACC input terminal. ACC ON when "Lo"
63	ENABLE IN	I	Enable input terminal from sub micro computer
64	SCA SWITCH	I	PACK IN signal input from cassette mechanism. "Lo" in PACK OUT
65	SCA CLOCK IN	I	Clock input terminal from cassette mechanism
66	DIAG RX	I	Signal input terminal from self-diagnostic tester
67	SUB CLK IN	I	Clock input terminal from sub micro computer
68	VOLUME IN	I	Rotary switch pulse input terminal to detect quick rotation of rotary switch
69	DIAG PHANTOM	I	Input terminal to judge PHANTOM circuit status
70 71	N.C.	I	Not in use
72	BACK UP AD	I	BACK UP voltage detection input terminal
73	S-METER IN	I	Input terminal to detect electric field strength measuring in TEST mode
74	MULPASS IN	I	Input terminal to judge multi- pass level in FM
75	NEIGHBOR IN	I	Input terminal to judge interference level of adjacent channel signals in FM
76	AF LEVEL IN	I	Input terminal to judge FM modulation level
77	AVCC	I	A/D converter power supply terminal
78	AVR	I	A/D converter voltage reference input terminal
79	AVSS	–	Connected to GND
80	CD DATA IN	I	Input terminal of data for display from CD A/C

■ MB89625RPFM-G-410 BND 052-3138-01 Sub Micro Computer

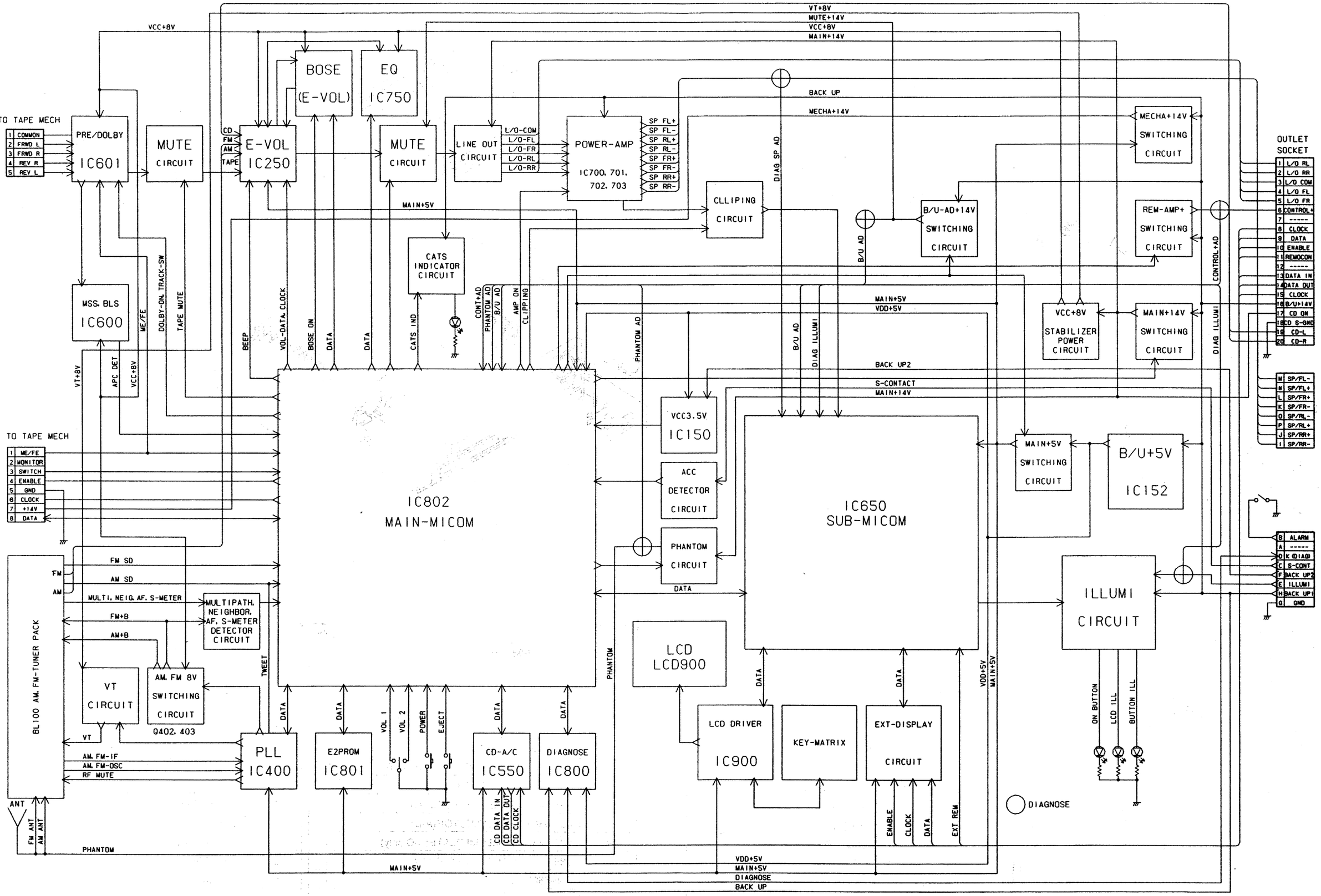
Outward Form

64 pins, plastic QFP

Terminal Description

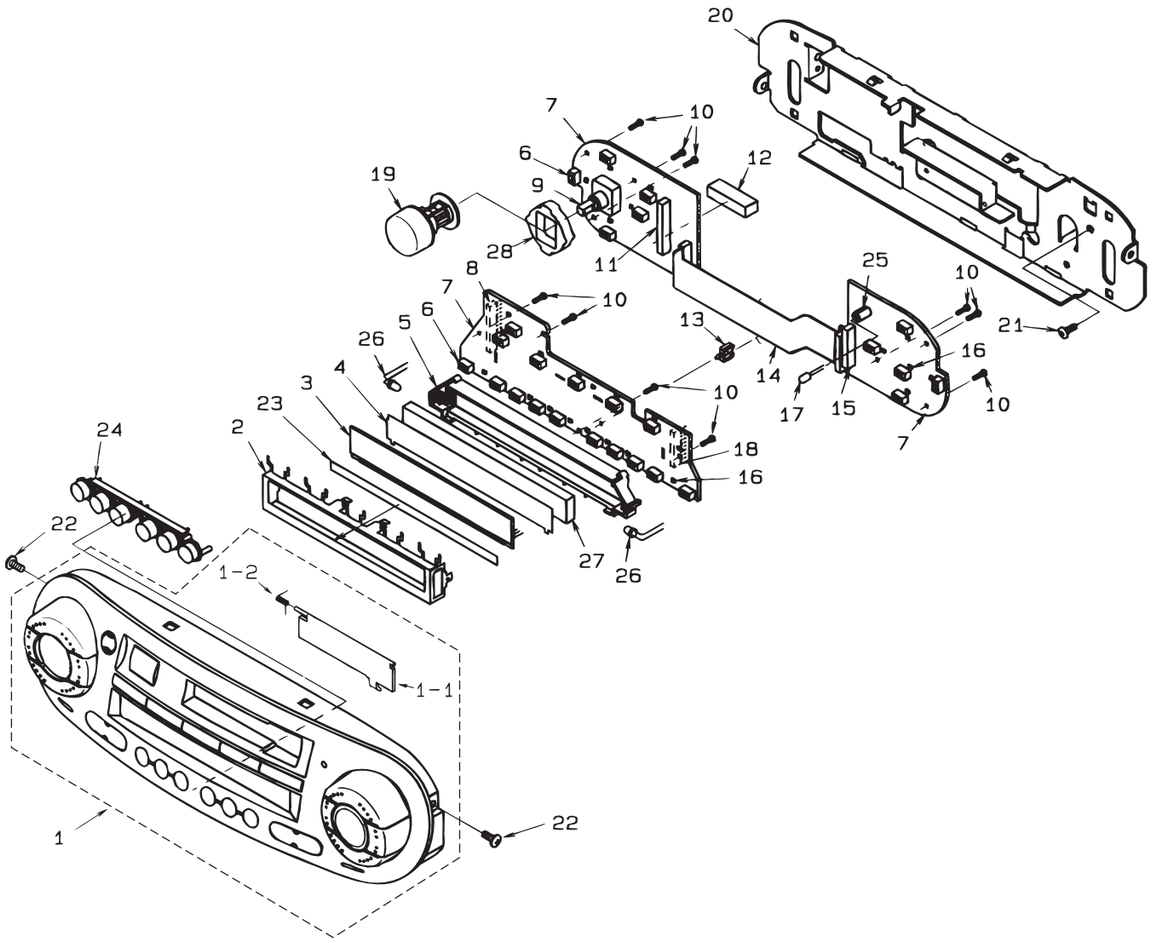
No.	Symbol	I/O	Function
1	DISP DATA	O	Transmission terminal of data for display to EXT DISPLAY
2	DISP ENAIN	I	Input terminal of the ENABLE from EXT DISPLAY
3 \ 4	N.C.	I	Not in use
5 6 7 8	DIAG SP FL AD DIAG SP FR AD DIAG SP RL AD DIAG SP RR AD	I	Used for diagnosis by self-diagnostic speaker
9	BACK UP AD	I	Used for diagnosis by self-diagnostic speaker
10	CLIP AD	I	Used for clip detection
11	AVCC	–	A/D converter power supply terminal
12	AVR	–	A/D converter voltage reference input terminal
13	AVSS	–	Connected GND
14	EXT REM	I	Remote control input terminal
15	KEY REQ	I	Key request input terminal from uPD16431
16	CLIPPING	I	Clip signal input terminal from POWER IC. Lowers volume in clip
17	DIAG ILL	I	Illumination pulse detection input terminal
18	N.C.	I	Not in use
19	$\overline{\text{RST}}$	I	External reset input terminal
20 21	MODE 0 MODE 1	I	Connected to GND to designate internal ROM mode
22 23	XI XO	I O	Clock terminal (8 MHz)
24	VSS	–	GND terminal
25 \ 31	N.C.	O	Not in use
32	$\overline{\text{ENABLE OUT}}$	O	Output terminal of the ENABLE to main micro computer
33 \ 40	N.C.	O	Not in use
41 42	BOSE SW2 BOSE SW1	I	Switch for BOSE compliant/non-compliant SW1 SW2 0 0 Contents of bite coding of self-diagnostic tester 0 1 BOSE incompliant 1 0 BOSE compliant
43 44	DIAG SW2 DIAG SW1	I	Switches of part No. display and NEW BEETLE/ A4 mode for self-diagnostic parts SW1 SW2 Part No. display NEW BEETLE/A4 0 0 1CO 035 180 (blue/red) NEW BEETLE 0 1 1JO 035 180A(blue/red) A4 1 0 1JO 035 180 (green) A4
45	$\overline{\text{LCD OE}}$	O	Output terminal to turn off LCD display
46	$\overline{\text{LCD STB}}$	O	Output terminal of the strove to display driver "uPD16431A".
47	$\overline{\text{LCD CLK}}$	O	Clock output terminal to display driver "uPD16431A".
48	LCD DATA	I/O	Serial data input/ output terminal to display driver "uPD16431A".
49	VSS	–	GND terminal
50	$\overline{\text{ENABLE IN}}$	I	Input terminal of the ENABLE from main micro computer
51	$\overline{\text{MAIN CLK IN}}$	I	Clock input terminal to input data from main micro computer
52	N.C.	O	Not in use
53	MAIN DATA IN	I	Data input terminal to input data from main micro computer
54	$\overline{\text{SUB CLK OUT}}$	O	Clock transmission terminal to main micro computer
55	SUB DATA OUT	O	Data transmission terminal to main micro computer
56	VCC	–	Power supply input terminal
57 58	ILL CONT1 ILL CONT2	O	Illumination control terminal. Controls this terminal with LCD display ON/OFF
59 \ 61	N.C.	O	Not in use
62	$\overline{\text{DISP ENAOUT}}$	O	Output terminal of the ENABLE to EXT DISPLAY
63	N.C.	O	Not in use
64	$\overline{\text{DISP CLK}}$	O	Clock transmission terminal to EXT DISPLAY

■BLOCK DIAGRAM



■EXPLODED VIEW • PARTS LIST

Escutcheon section for PU-1569A-C

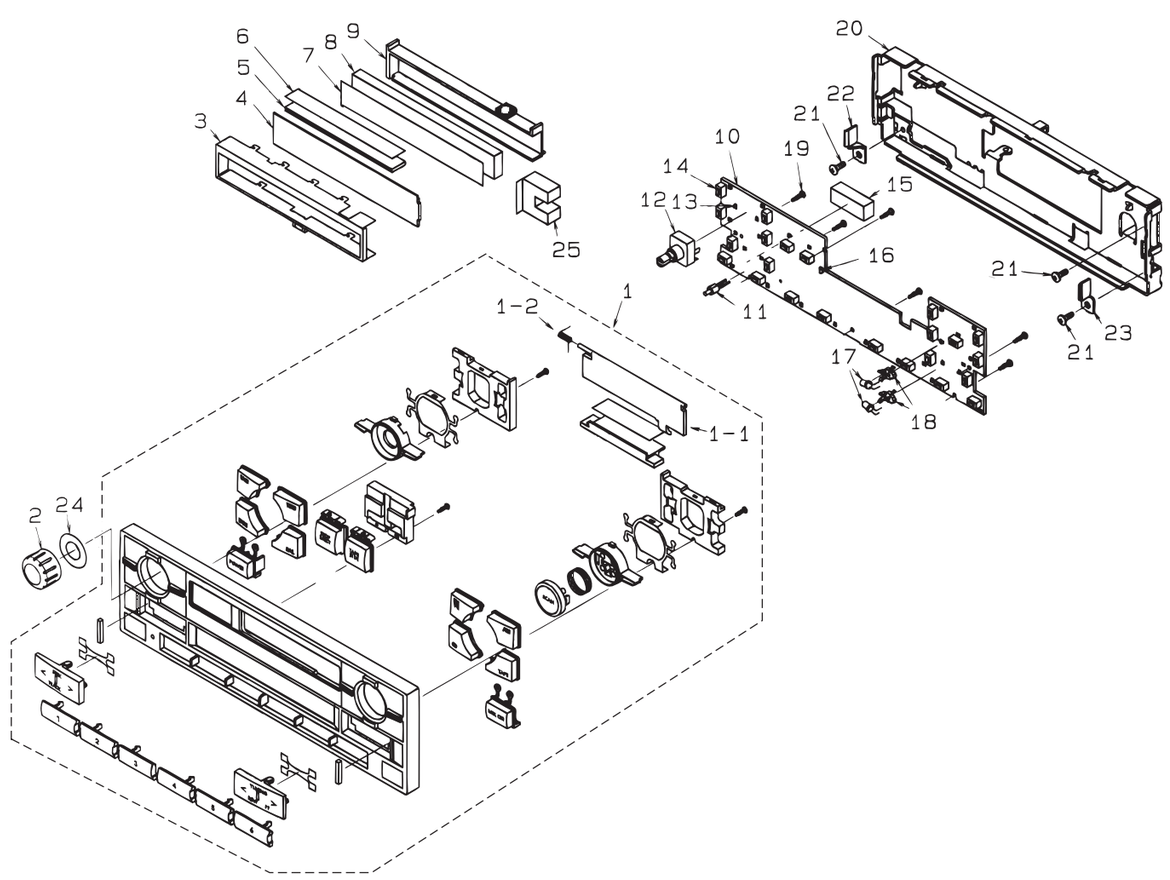


NO.	PART NO.	DESCRIPTION	Q'TY
1	940-7791-03	ESCUTCHEON ASS'Y	1
1-1	320-0541-00	DUSTPROOF COVER	1
1-2	750-2309-01	SPRING	1
2	750-3234-01	LCD HOLDER	1
3	379-1089-40	INDICATOR	1
4	335-5521-00	REFLECTOR	1
5	335-5520-00	SPRING HOLDER	1
6	013-6302-01	SWITCH	26
7	039-0939-01	SWITCH PWB	1
8	076-0541-12	PLUG	1
9	016-0012-00	VARIABLE RESISTOR	1
10	716-0872-01	SCREW	10
11	074-0880-12	OUTLET SOCKET	1
12	074-1105-16	OUTLET SOCKET	1
13	335-3700-00	MINI-SADDLE	1

NO.	PART NO.	DESCRIPTION	Q'TY
14	854-4298-30	EXTENSION LEAD	1
15	074-0880-09	OUTLET SOCKET	1
16	001-7031-04	RED LED	25
17	001-0412-19	RED DIODE	1
18	076-0541-09	PLUG	1
19	380-5402-00	KNOB	1
20	309-0689-01	FRONT PLATE	1
21	731-2608-80	TAPTIGHT	1
22	714-3006-81	MACHINE SCREW	2
23	347-5496-00	INSULATOR	1
24	382-4535-00	BUTTON(1〜6)	1
25	340-4323-00	SPACER	1
26	001-7035-00	BLUE LED	2
27	335-5522-01	ILLUMI PLATE	1
28	345-7971-00	CUSHION RUBBER	1

PU-1569A-C
PU-1582A-C/A-D

Escutcheon section for PU-1582A-C/A-D



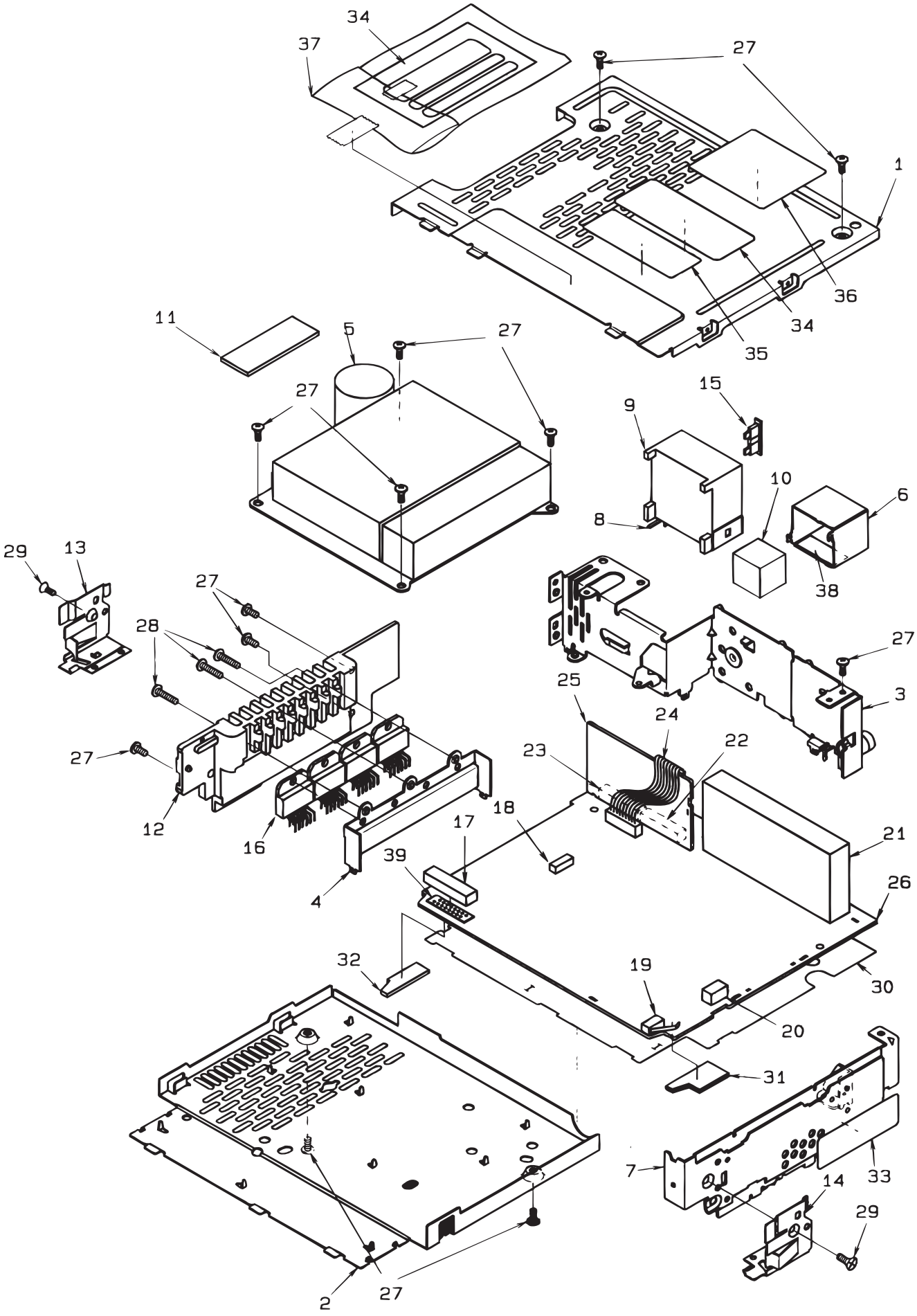
NO.	PART NO.	DESCRIPTION	Q'TY
1	940-7808-03	ESCUTCHEON ASS'Y	1
1-1	320-0545-00	DUSTPROOF COVER	1
1-2	750-2309-01	SPRING	1
2	380-5408-01	KNOB	1
3	331-2175-00	LCD HOLDER	1
4	379-1100-40	LCD	1
5	345-7951-00	RUBBER CONNECTOR	1
6	347-5500-00	SPACER	1
7	335-5490-00	REFLECTOR(A-C)	1
	335-5562-00	REFLECTOR(A-D)	1
8	335-5489-00	ILLUMI PLATE(A-C only)	1
9	335-5506-00	LCD HOLDER(A-C)	1
	335-5527-00	LCD HOLDER(A-D)	1
10	039-1009-00	SWITCH PWB(A-C)	1
	039-1052-00	SWITCH PWB(A-D)	1
11	001-7025-00	RED DIODE	1

NO.	PART NO.	DESCRIPTION	Q'TY
12	016-0012-01	VARIABLE RESISTOR	1
13	001-7031-04	RED LED(A-C)	25
	001-7031-03	GREEN LED(A-D)	34
14	013-6302-01	SWITCH	23
15	074-1105-16	OUTLET SOCKET	1
16	001-7021-03	RED DIODE(A-C)	1
	001-7021-00	GREEN DIODE(A-D)	1
17	001-7035-00	BLUE DIODE(A-C only)	2
18	335-5488-00	LED HOLDER(A-C only)	2
19	716-0872-01	PAD SCREW	7
20	309-0688-00	FRONT PLATE	1
21	731-2608-80	TAPTIGHT	3
22	331-2075-00	REMOVAL GUIDE(L)	1
23	331-2076-00	REMOVAL GUIDE(R)	1
24	353-0491-00	SHADE	1
25	345-7974-00	SHADE(A-C only)	1

PU-1569A-C
PU-1582A-C/A-D

Main section

※ Parts list on next page.



NO.	PART NO.	DESCRIPTION	Q'TY
1	303-0462-01	UPPER COVER	1
2	304-0448-00	LOWER COVER(PU1569A)	1
	304-0447-00	LOWER COVER(PU1582A)	1
3	331-2072-00	REAR PLATE	1
4	331-2073-00	IC BRACKET	1
5	930-1006-00	TAPE MECH	1
6	331-2077-00	SHIELD CASE	1
7	331-2078-00	SIDE PLATE	1
8	331-2079-00	SOCKET HOLDER	1
9	074-1159-00	OUTLET SOCKET	1
10	009-0666-62	CHOKE	1
11	347-5477-00	INSULATOR	1
12	313-1687-01	HEAT SINK	1
13	750-3230-01	SIDE SPRING-L(PU1569A)	1
	750-3233-01	SIDE SPRING-L(PU1582A)	1
14	750-3231-01	SIDE SPRING-R(PU1569A)	1
	750-3232-01	SIDE SPRING-R(PU1582A)	1
15	060-0057-56	AUTO FUSE(10A)	1
16	051-2019-00	IC	4
17	076-0515-16	PLUG	1
18	074-1153-08	OUTLET SOCKET(8P)	1
19	013-7104-00	SWITCH(ALARM)	1
20	074-1154-05	OUTLET SOCKET(5P)	1
21	880-1953B	TUNER PACK	1

NO.	PART NO.	DESCRIPTION	Q'TY
22	076-0324-13	PLUG(13P)	1
23	076-0324-10	PLUG(10P)	1
24	854-4299-30	EXTENSION LEAD	1
25	039-0938-01	CONNECTOR PWB	1
26	039-0937-02	MAIN PWB	1
27	731-2608-80	TAPTIGHT	12
28	731-2612-87	TAPTIGHT	3
29	714-3006-40	MACHINE SCREW	2
30	347-5509-00	INSULATOR(PU1569A)	1
	347-5529-00	INSULATOR(PU1582A)	1
31	347-5510-00	INSULATOR(PU1569A only)	1
32	347-5511-00	INSULATOR(PU1569A only)	1
33	286-8871-00	SETPLATE(PU1569AC)	1
	286-8867-00	SETPLATE(PU1582AC)	1
	286-8872-00	SETPLATE(PU1582AD)	1
34	290-6735-01	LABEL(PU1569AC)	1
	290-6720-01	LABEL(PU1582AC)	1
	290-6736-01	LABEL(PU1582AD)	1
35	290-6721-00	LABEL(DOLBY)	1
36	290-6722-00	LABEL(CONNECTION)	1
37	253-0380-01	POLY BAG	1
38	347-4068-00	SPACER	1
39	347-5592-00	PAPER	1

■ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

Main PWB section

REF No.	PART No.	DESCRIPTION
C 100	178-1042-78	0.1μF
C 101	176-2201-00	22pF CH
C 102	184-4773-22	10V470μF
C 106	183-1073-22	10V100μF
C 108	178-1032-78	0.01μF
C 109	178-2732-78	0.027μF
C 110	178-2732-78	0.027μF
C 111	178-5632-78	0.056μF
C 112	176-1011-00	100pF CH
C 113	176-1011-00	100pF CH
C 114	183-2253-62	50V2.2μF
C 115	183-2253-62	50V2.2μF
C 116	178-4732-78	0.047μF
C 117	176-2201-00	22pF CH
C 118	178-1032-78	0.01μF
C 150	178-1032-78	0.01μF
C 151	183-2253-62	50V2.2μF
C 153	042-0171-00	16V47μF
C 154	172-1031-11	0.01μF
C 155	172-1031-11	0.01μF
C 156	184-4763-51	35V47μF
C 157	183-1063-31	16V10μF
C 158	178-2232-78	0.022μF
C 159	178-1032-78	0.01μF
C 160	178-1032-78	0.01μF
C 200	178-2232-78	0.022μF
C 202	183-1063-31	16V10μF
C 203	178-3332-78	0.033μF
C 204	178-1042-78	0.1μF
C 250	183-1063-31	16V10μF
C 251	183-1063-31	16V10μF
C 252	178-4732-78	0.047μF
C 253	178-1032-78	0.01μF
C 254	178-1032-78	0.01μF
C 255	183-4753-51	35V4.7μF
C 256	183-4753-51	35V4.7μF
C 257	178-1042-78	0.1μF
C 258	178-1042-78	0.1μF
C 259	183-1063-31	16V10μF

REF No.	PART No.	DESCRIPTION
C 260	183-1063-31	16V10μF
C 261	183-2253-61	50V2.2μF
C 262	183-2253-61	50V2.2μF
C 263	182-1073-13	6.3V100μF
C 269	178-1032-78	0.01μF
C 270	183-1063-31	16V10μF
C 271	183-1053-61	50V1μF
C 272	183-1053-61	50V1μF
C 273	183-1053-61	50V1μF
C 274	183-1053-61	50V1μF
C 277	178-1042-78	0.1μF
C 278	178-1032-78	0.01μF
C 279	183-1063-31	16V10μF
C 280	183-1063-31	16V10μF
C 300	178-1022-78	1000pF
C 301	178-1022-78	1000pF
C 302	178-3922-78	3900pF
C 303	178-6832-78	0.068μF
C 304	178-1022-78	1000pF
C 305	178-3322-78	3300pF
C 306	178-2232-78	0.022μF
C 307	178-1022-78	1000pF
C 308	183-1063-31	16V10μF
C 309	183-4763-11	6.3V47μF
C 310	178-2232-78	0.022μF
C 311	178-2232-78	0.022μF
C 312	178-1042-78	0.1μF
C 313	178-1042-78	0.1μF
C 314	183-4753-51	35V4.7μF
C 350	178-2212-78	220pF
C 351	178-1032-78	0.01μF
C 352	183-1063-31	16V10μF
C 353	183-1063-31	16V10μF
C 354	172-2241-11	0.22μF
C 355	172-1241-11	0.12μF
C 356	183-1063-31	16V10μF
C 357	183-1063-31	16V10μF
C 358	183-1063-31	16V10μF
C 359	182-2273-13	6.3V220μF

REF No.	PART No.	DESCRIPTION
C 400	183-3353-61	50V3.3μF
C 401	178-1032-78	0.01μF
C 403	183-2263-11	6.3V22μF
C 404	178-1032-78	0.01μF
C 405	176-1501-00	15pF CH
C 406	176-1501-00	15pF CH
C 407	178-1022-78	1000pF
C 408	176-1007-00	10pF CH
C 409	176-1007-00	10pF CH
C 410	176-1007-00	10pF CH
C 450	178-1822-78	1800pF
C 451	178-1822-78	1800pF
C 452	178-1822-78	1800pF
C 453	178-1822-78	1800pF
C 500	183-1053-61	50V1μF
C 501	183-1053-61	50V1μF
C 502	183-1053-61	50V1μF
C 503	183-1053-61	50V1μF
C 504	176-2701-00	27pF CH
C 505	176-2701-00	27pF CH
C 506	176-2701-00	27pF CH
C 507	176-2701-00	27pF CH
C 508	183-2263-31	16V22μF
C 509	183-2263-31	16V22μF
C 510	183-1073-21	10V100μF
C 511	183-2263-31	16V22μF
C 512	183-2263-31	16V22μF
C 513	183-6863-22	10V68μF
C 514	183-6863-22	10V68μF
C 600	176-1007-00	10pF CH
C 601	178-4732-78	0.047μF
C 602	183-1073-12	6.3V100μF
C 603	178-5612-78	560pF
C 604	178-5612-78	560pF
C 605	178-5612-78	560pF
C 606	178-5612-78	560pF
C 608	183-1063-31	16V10μF
C 609	183-1063-31	16V10μF
C 610	178-1032-78	0.01μF

REF No.	PART No.	DESCRIPTION
C 611	178-1032-78	0.01μF
C 612	178-1542-78	0.15μF
C 613	183-2253-62	50V2.2μF
C 614	178-1532-78	0.015μF
C 615	178-1532-78	0.015μF
C 616	172-1041-11	0.1μF
C 617	172-1041-11	0.1μF
C 618	172-1041-11	0.1μF
C 619	178-4722-78	4700pF
C 620	178-4722-78	4700pF
C 621	172-1041-11	0.1μF
C 622	172-2241-11	0.22μF
C 623	172-2241-11	0.22μF
C 624	178-1042-78	0.1μF
C 625	183-1073-22	10V100μF
C 626	178-2232-78	0.022μF
C 627	178-4742-78	0.47μF
C 629	178-1032-78	0.01μF
C 631	178-4742-78	0.47μF
C 632	178-4742-78	0.47μF
C 633	183-1053-62	50V1μF
C 634	178-4742-78	0.47μF
C 635	178-4742-78	0.47μF
C 636	184-2273-22	10V220μF
C 650	178-1032-78	0.01μF
C 651	178-1032-78	0.01μF
C 652	183-1063-31	16V10μF
C 653	178-6822-78	6800pF
C 654	183-2253-61	50V2.2μF
C 655	178-4742-78	0.47μF
C 656	178-4742-78	0.47μF
C 657	178-4742-78	0.47μF
C 658	178-4742-78	0.47μF
C 659	178-4742-78	0.47μF
C 660	178-4742-78	0.47μF
C 661	178-4742-78	0.47μF
C 662	178-4742-78	0.47μF
C 665	178-2212-78	220pF
C 700	183-1543-62	50V0.15μF
C 701	183-1543-62	50V0.15μF
C 702	183-1543-62	50V0.15μF
C 703	183-1543-62	50V0.15μF
C 704	178-1022-78	1000pF
C 705	178-1022-78	1000pF
C 706	172-1041-11	0.1μF
C 707	172-1041-11	0.1μF
C 708	184-2283-32	16V2200μF
C 709	183-1063-31	16V10μF
C 710	183-1063-31	16V10μF
C 711	183-1053-61	50V1μF
C 712	183-1543-62	50V0.15μF
C 713	183-1543-62	50V0.15μF
C 714	183-1543-62	50V0.15μF
C 715	183-1543-62	50V0.15μF
C 716	178-1022-78	1000pF
C 717	178-1022-78	1000pF
C 718	172-1041-11	0.1μF
C 719	172-1041-11	0.1μF
C 720	184-2283-32	16V2200μF
C 721	183-1063-31	16V10μF
C 722	183-1063-31	16V10μF
C 750	172-4731-11	0.047μF
C 751	172-4731-11	0.047μF
C 752	172-4731-11	0.047μF
C 753	172-4731-11	0.047μF
C 754	173-4711-11	470pF J
C 755	173-4711-11	470pF J
C 756	173-4711-11	470pF J
C 757	183-1063-31	16V10μF
C 758	183-1063-31	16V10μF
C 759	183-1063-31	16V10μF
C 760	173-4711-11	470pF J
C 761	178-1032-78	0.01μF
C 762	183-1063-31	16V10μF
C 763	183-1063-31	16V10μF
C 764	183-1063-31	16V10μF
C 765	178-1032-78	0.01μF
C 766	183-1063-31	16V10μF
C 767	173-4711-11	470pF J
C 768	183-1063-31	16V10μF
C 769	182-2263-22	10V22μF
C 770	172-4731-11	0.047μF
C 771	172-4731-11	0.047μF
C 772	172-4731-11	0.047μF
C 773	172-4731-11	0.047μF

REF No.	PART No.	DESCRIPTION
C 774	173-4711-11	470pF J
C 775	173-4711-11	470pF J
C 776	173-4711-11	470pF J
C 778	183-1063-31	16V10μF
C 801	178-1032-78	0.01μF
C 802	183-1063-31	16V10μF
C 803	178-1032-78	0.01μF
C 804	183-4763-31	16V47μF
C 805	183-1053-61	50V1μF
C 806	178-1032-78	0.01μF
C 807	183-1063-31	16V10μF
C 808	178-1032-78	0.01μF
C 809	178-4732-78	0.047μF
C 810	184-4773-12	6.3V470μF
C 811	178-4732-78	0.047μF
C 812	178-1022-78	1000pF
C 813	178-1032-78	0.01μF
C 814	178-1042-78	0.1μF
C 851	184-1083-32	16V1000μF
C 950	183-1073-22	10V100μF
C 951	184-4773-22	10V470μF
C 952	183-1073-22	10V100μF
C 953	184-4773-22	10V470μF
D 150	001-0330-00	1SS119
D 151	001-0376-69	MTZJ18B
D 153	001-0330-00	1SS119
D 154	001-0376-29	MTZJ5.1B
D 155	001-0330-00	1SS119
D 156	001-0466-00	S5688B
D 157	001-0330-00	1SS119
D 158	001-0376-29	MTZJ5.1B
D 159	001-0330-00	1SS119
D 160	001-0466-00	S5688B
D 161	001-0330-00	1SS119
D 162	001-0330-00	1SS119
D 201	001-0466-00	S5688B
D 202	001-0330-00	1SS119
D 203	001-0330-00	1SS119
D 206	001-0376-29	MTZJ5.1B
D 300	001-0330-00	1SS119
D 301	001-0330-00	1SS119
D 302	001-0330-00	1SS119
D 303	001-0330-00	1SS119
D 304	001-0330-00	1SS119
D 305	001-0330-00	1SS119
D 500	001-0528-36	MA8062-H
D 500	001-0574-36	DTZ6.2C
D 500	001-4300-36	HZU 6.2B3
D 600	001-0330-00	1SS119
D 650	001-0330-00	1SS119
D 651	001-0330-00	1SS119
D 652	001-0330-00	1SS119
D 657	001-0454-00	MA700
D 658	001-0330-00	1SS119
D 659	001-0330-00	1SS119
D 660	001-0330-00	1SS119
D 661	001-0330-00	1SS119
D 662	001-0330-00	1SS119
D 663	001-0330-00	1SS119
D 800	001-0466-00	S5688B
D 801	001-0376-38	MTZJ6.8B
D 809	001-0330-00	1SS119
D 810	001-0330-00	1SS119
D 850	001-0466-00	S5688B
D 851	001-0466-00	S5688B
D 852	001-0330-00	1SS119
D 853	001-0376-29	MTZJ5.1B
D 854	001-0330-00	1SS119
D 855	001-0330-00	1SS119
D 856	001-0376-49	MTZJ10A
D 856	001-0377-48	MA4091H
D 856	001-0400-48	HZS9.1JB3
D 857	001-0346-14	MTZJ T-77 3.0A
D 950	001-0376-47	MTZJ9.1B
D 950	001-0377-46	MA4091L
D 950	001-0400-46	HZS9.1JB1
D 951	001-0376-47	MTZJ9.1B
D 951	001-0377-46	MA4091L
D 951	001-0400-46	HZS9.1JB1
IC 150	051-5405-08	S-80723AN-DL-T1
IC 152	051-1834-00	LM2936
IC 200	051-1081-00	NJM082BM
IC 250	051-5008-00	M62419FP
IC 251	051-7102-08	TC4066BFSEL
IC 300	051-0556-01	NJM2058M

REF No.	PART No.	DESCRIPTION
IC 350	051-1500-00	NJM2060M
IC 351	051-5009-00	TC9212F
IC 352	051-1500-00	NJM2060M
IC 400	051-1887-05	LC72191MHS
IC 500	051-1500-00	NJM2060M
IC 501	051-3015-00	NJM4580M
IC 550	051-1181-05	TC4584BF
IC 600	051-0620-00	LA2000C
IC 601	051-5201-00	TEA0675T
IC 650	052-3138-01	MB89625RPFM-G-410BND
IC 700	051-2019-00	TDA7396
IC 701	051-2019-00	TDA7396
IC 702	051-2019-00	TDA7396
IC 703	051-2019-00	TDA7396
IC 750	051-5815-00	LC75280E
IC 800	051-5811-00	L9637D
IC 801	051-9400-18	
IC 802	052-3137-01	MB89677ARPF-G-147BND
L 100	010-2003-03	76μH
L 200	010-2330-16	4.7μH J
L 201	010-2334-00	8.2mH
L 300	010-2046-44	1mH
L 301	010-2046-44	1mH
L 400	010-2330-33	120μH J
L 650	010-2330-33	120μH J
Q 150	100-1162-00	2SA1162
Q 151	102-2412-00	2SC2412
Q 151	102-2712-00	2SC2712
Q 152	101-1243-00	2SB1243
Q 153	100-1162-00	2SA1162
Q 154	102-2412-00	2SC2412
Q 154	102-2712-00	2SC2712
Q 155	100-1431-00	2SA1431
Q 156	102-2412-00	2SC2412
Q 156	102-2712-00	2SC2712
Q 157	100-1431-00	2SA1431
Q 158	102-2412-00	2SC2412
Q 158	102-2712-00	2SC2712
Q 200	100-1162-00	2SA1162
Q 201	100-1162-00	2SA1162
Q 202	102-2412-00	2SC2412
Q 202	102-2712-00	2SC2712
Q 251	125-2020-03	DTC124EK
Q 252	125-2020-03	DTC124EK
Q 300	102-2412-00	2SC2412
Q 300	102-2712-00	2SC2712
Q 301	102-2412-00	2SC2412
Q 301	102-2712-00	2SC2712
Q 400	102-2712-51	2SC2712G.L
Q 401	102-2712-51	2SC2712G.L
Q 402	100-1297-00	2SA1297
Q 403	100-1162-00	2SA1162
Q 450	103-1306-00	2SD1306
Q 451	103-1306-00	2SD1306
Q 452	103-1306-00	2SD1306
Q 453	103-1306-00	2SD1306
Q 454	125-0001-02	UN2112
Q 454	125-0002-03	RN2403
Q 454	125-0014-03	DTA124EK
Q 455	125-0001-02	UN2112
Q 455	125-0002-03	RN2403
Q 455	125-0014-03	DTA124EK
Q 456	125-0001-02	UN2112
Q 456	125-0002-03	RN2403
Q 456	125-0014-03	DTA124EK
Q 457	125-0001-02	UN2112
Q 457	125-0002-03	RN2403
Q 457	125-0014-03	DTA124EK
Q 600	102-2412-00	2SC2412
Q 600	102-2712-00	2SC2712
Q 601	100-1431-00	2SA1431
Q 602	102-2412-00	2SC2412
Q 602	102-2712-00	2SC2712
Q 603	103-1306-00	2SD1306
Q 604	103-1306-00	2SD1306
Q 650	102-2412-00	2SC2412
Q 650	102-2712-00	2SC2712
Q 651	102-2412-00	2SC2412
Q 651	102-2712-00	2SC2712
Q 653	100-1162-00	2SA1162
Q 700	125-2004-02	RN1402
Q 700	125-2005-01	UN2211
Q 700	125-2020-02	DTC114EK

REF No.	PART No.	DESCRIPTION
Q 701	125-2004-02	RN1402
Q 701	125-2005-01	UN2211
Q 701	125-2020-02	DTC114EK
Q 702	125-2004-02	RN1402
Q 702	125-2005-01	UN2211
Q 702	125-2020-02	DTC114EK
Q 703	125-2004-02	RN1402
Q 703	125-2005-01	UN2211
Q 703	125-2020-02	DTC114EK
Q 802	102-2412-00	2SC2412
Q 802	102-2712-00	2SC2712
Q 803	102-2412-00	2SC2412
Q 803	102-2712-00	2SC2712
Q 850	102-2412-00	2SC2412
Q 850	102-2712-00	2SC2712
Q 851	100-1297-00	2SA1297
Q 852	102-2412-00	2SC2412
Q 852	102-2712-00	2SC2712
Q 853	101-1434-00	2SD1434
Q 854	102-2412-00	2SC2412
Q 854	102-2712-00	2SC2712
Q 855	100-1297-00	2SA1297
Q 856	102-2412-00	2SC2412
Q 856	102-2712-00	2SC2712
Q 857	103-1858-00	2SD1858
Q 950	103-1858-00	2SD1858
Q 951	103-1858-00	2SD1858
Q 952	103-1858-00	2SD1858
Q 953	103-1858-00	2SD1858
R 100	117-8221-10	1/10W 8.2kΩ
R 101	117-4721-10	1/10W 4.7kΩ
R 102	117-4721-10	1/10W 4.7kΩ
R 103	117-1031-10	1/10W 10kΩ
R 104	117-2221-10	1/10W 2.2kΩ
R 105	117-3321-10	1/10W 3.3kΩ
R 106	117-3321-10	1/10W 3.3kΩ
R 107	117-8211-10	1/10W 820Ω
R 108	111-1091-91	1/4WS 1Ω
R 151	117-1541-10	1/10W 150kΩ
R 152	117-1051-10	1/10W 1MΩ
R 153	117-1841-10	1/10W 180kΩ
R 155	117-2231-10	1/10W 22kΩ
R 156	117-2231-10	1/10W 22kΩ
R 158	117-1021-10	1/10W 1kΩ
R 159	117-4731-10	1/10W 47kΩ
R 160	111-1001-81	1/2WS 10Ω
R 161	111-2201-91	1/4WS 22Ω
R 162	117-1031-10	1/10W 10kΩ
R 164	117-1031-10	1/10W 10kΩ
R 165	117-1521-10	1/10W 1.5kΩ
R 166	117-1831-10	1/10W 18kΩ
R 167	117-4721-10	1/10W 4.7kΩ
R 168	117-1021-10	1/10W 1kΩ
R 169	117-1031-10	1/10W 10kΩ
R 171	117-4721-10	1/10W 4.7kΩ
R 172	111-1821-91	1/4WS 1.8kΩ
R 173	117-2231-10	1/10W 22kΩ
R 174	117-4721-10	1/10W 4.7kΩ
R 176	117-2231-10	1/10W 22kΩ
R 177	111-2221-91	1/4WS 2.2kΩ
R 178	117-1011-10	1/10W 100Ω
R 200	117-1021-10	1/10W 1kΩ
R 201	117-4791-10	1/10W 4.7Ω
R 202	117-4791-10	1/10W 4.7Ω
R 203	117-1031-10	1/10W 10kΩ
R 204	117-1031-10	1/10W 10kΩ
R 206	117-1031-10	1/10W 10kΩ
R 207	117-1021-10	1/10W 1kΩ
R 208	117-5631-10	1/10W 56kΩ
R 209	117-1031-10	1/10W 10kΩ
R 210	117-1031-10	1/10W 10kΩ
R 211	117-1821-10	1/10W 1.8kΩ
R 212	117-4731-10	1/10W 47kΩ
R 213	117-6811-10	1/10W 680Ω
R 214	117-4731-10	1/10W 47kΩ
R 250	117-1541-10	1/10W 150kΩ
R 251	117-1541-10	1/10W 150kΩ
R 252	117-1051-10	1/10W 1MΩ
R 253	117-1051-10	1/10W 1MΩ
R 254	117-2231-10	1/10W 22kΩ
R 255	117-2231-10	1/10W 22kΩ
R 256	117-1031-10	1/10W 10kΩ
R 257	117-3331-10	1/10W 33kΩ
R 258	117-3331-10	1/10W 33kΩ
R 259	117-1031-10	1/10W 10kΩ

REF No.	PART No.	DESCRIPTION
R 260	117-2731-10	1/10W 27kΩ
R 261	117-2731-10	1/10W 27kΩ
R 262	117-1231-10	1/10W 12kΩ
R 263	117-1231-10	1/10W 12kΩ
R 264	117-9131-10	1/10W 91kΩ
R 265	117-9131-10	1/10W 91kΩ
R 266	117-2221-10	1/10W 2.2kΩ
R 267	117-2221-10	1/10W 2.2kΩ
R 270	117-1031-10	1/10W 10kΩ
R 271	117-1031-10	1/10W 10kΩ
R 274	117-4741-10	1/10W 470kΩ
R 275	117-1841-10	1/10W 180kΩ
R 276	117-1031-10	1/10W 10kΩ
R 277	117-2231-10	1/10W 22kΩ
R 300	117-1031-10	1/10W 10kΩ
R 301	117-2241-10	1/10W 220kΩ
R 302	117-2241-10	1/10W 220kΩ
R 303	117-2211-10	1/10W 220Ω
R 304	117-4711-10	1/10W 470Ω
R 305	117-8221-10	1/10W 8.2kΩ
R 306	117-8221-10	1/10W 8.2kΩ
R 307	117-1031-10	1/10W 10kΩ
R 308	117-1231-10	1/10W 12kΩ
R 309	117-1241-10	1/10W 120kΩ
R 310	117-2231-10	1/10W 22kΩ
R 311	117-1041-10	1/10W 100kΩ
R 312	117-2231-10	1/10W 22kΩ
R 313	117-1041-10	1/10W 100kΩ
R 314	117-1041-10	1/10W 100kΩ
R 315	117-1041-10	1/10W 100kΩ
R 350	117-1541-10	1/10W 150kΩ
R 351	117-1541-10	1/10W 150kΩ
R 352	117-7521-10	1/10W 7.5kΩ
R 353	117-1241-10	1/10W 120kΩ
R 354	117-1241-10	1/10W 120kΩ
R 355	117-1021-10	1/10W 1kΩ
R 356	117-1031-10	1/10W 10kΩ
R 357	117-1031-10	1/10W 10kΩ
R 358	117-1031-10	1/10W 10kΩ
R 359	117-1031-10	1/10W 10kΩ
R 360	117-1031-10	1/10W 10kΩ
R 361	117-1031-10	1/10W 10kΩ
R 362	117-1031-10	1/10W 10kΩ
R 363	117-1031-10	1/10W 10kΩ
R 364	117-1031-10	1/10W 10kΩ
R 365	117-1031-10	1/10W 10kΩ
R 400	117-5621-10	1/10W 5.6kΩ
R 401	117-1021-10	1/10W 1kΩ
R 402	117-2231-10	1/10W 22kΩ
R 403	117-2231-10	1/10W 22kΩ
R 404	117-2221-10	1/10W 2.2kΩ
R 405	117-2221-10	1/10W 2.2kΩ
R 407	117-1021-10	1/10W 1kΩ
R 409	117-2221-10	1/10W 2.2kΩ
R 450	117-2231-10	1/10W 22kΩ
R 451	117-2231-10	1/10W 22kΩ
R 452	117-2231-10	1/10W 22kΩ
R 453	117-2231-10	1/10W 22kΩ
R 454	117-2221-10	1/10W 2.2kΩ
R 455	117-2221-10	1/10W 2.2kΩ
R 456	117-2221-10	1/10W 2.2kΩ
R 457	117-2221-10	1/10W 2.2kΩ
R 458	117-2221-10	1/10W 2.2kΩ
R 459	117-2221-10	1/10W 2.2kΩ
R 460	117-2221-10	1/10W 2.2kΩ
R 461	117-2221-10	1/10W 2.2kΩ
R 500	117-1001-10	1/10W 10Ω
R 501	117-1001-10	1/10W 10Ω
R 504	117-5621-10	1/10W 5.6kΩ
R 505	117-5631-10	1/10W 56kΩ
R 506	117-5631-10	1/10W 56kΩ
R 507	117-5621-10	1/10W 5.6kΩ
R 510	117-4731-10	1/10W 47kΩ
R 511	117-4731-10	1/10W 47kΩ
R 512	117-5621-10	1/10W 5.6kΩ
R 513	117-5631-10	1/10W 56kΩ
R 514	117-5631-10	1/10W 56kΩ
R 515	117-5621-10	1/10W 5.6kΩ
R 516	117-4731-10	1/10W 47kΩ
R 517	117-4731-10	1/10W 47kΩ
R 518	117-1001-10	1/10W 10Ω
R 519	117-1001-10	1/10W 10Ω
R 520	117-4721-10	1/10W 4.7kΩ
R 550	117-1051-10	1/10W 1MΩ
R 551	117-1051-10	1/10W 1MΩ

REF No.	PART No.	DESCRIPTION
R 552	117-1541-10	1/10W 150kΩ
R 553	117-1021-10	1/10W 1kΩ
R 554	117-1541-10	1/10W 150kΩ
R 555	117-1021-10	1/10W 1kΩ
R 556	117-3321-10	1/10W 3.3kΩ
R 557	117-1021-10	1/10W 1kΩ
R 558	117-3321-10	1/10W 3.3kΩ
R 559	117-1021-10	1/10W 1kΩ
R 560	117-3321-10	1/10W 3.3kΩ
R 561	117-1021-10	1/10W 1kΩ
R 562	117-3321-10	1/10W 3.3kΩ
R 600	117-4731-10	1/10W 47kΩ
R 601	117-1041-10	1/10W 100kΩ
R 602	117-1521-10	1/10W 1.5kΩ
R 603	117-1041-10	1/10W 100kΩ
R 604	117-1831-10	1/10W 18kΩ
R 605	117-1041-10	1/10W 100kΩ
R 606	117-1041-10	1/10W 100kΩ
R 607	111-1521-91	1/4WS 1.5kΩ
R 608	117-1031-10	1/10W 10kΩ
R 609	117-1031-10	1/10W 10kΩ
R 610	117-4711-10	1/10W 470Ω
R 611	117-1841-10	1/10W 180kΩ
R 612	117-2431-10	1/10W 24kΩ
R 613	117-2431-10	1/10W 24kΩ
R 614	117-1841-10	1/10W 180kΩ
R 615	117-4711-10	1/10W 470Ω
R 616	117-3331-10	1/10W 33kΩ
R 617	117-1031-10	1/10W 10kΩ
R 618	117-3341-10	1/10W 330kΩ
R 619	117-8221-10	1/10W 8.2kΩ
R 620	117-3341-10	1/10W 330kΩ
R 621	117-3341-10	1/10W 330kΩ
R 622	117-1531-10	1/10W 15kΩ
R 623	117-8221-10	1/10W 8.2kΩ
R 624	117-2741-10	1/10W 270kΩ
R 625	117-2741-10	1/10W 270kΩ
R 626	117-8221-10	1/10W 8.2kΩ
R 627	117-1041-10	1/10W 100kΩ
R 628	117-1041-10	1/10W 100kΩ
R 629	117-5611-10	1/10W 560Ω
R 630	117-5611-10	1/10W 560Ω
R 631	117-1021-10	1/10W 1kΩ
R 632	117-1021-10	1/10W 1kΩ
R 633	117-1021-10	1/10W 1kΩ
R 634	117-4721-10	1/10W 4.7kΩ
R 635	117-2731-10	1/10W 27kΩ
R 636	117-2731-10	1/10W 27kΩ
R 650	116-3321-10	1/8W 3.3kΩ
R 651	117-4731-10	1/10W 47kΩ
R 652	117-4731-10	1/10W 47kΩ
R 653	117-4721-10	1/10W 4.7kΩ
R 654	117-4721-10	1/10W 4.7kΩ
R 655	117-2231-10	1/10W 22kΩ
R 656	117-4721-10	1/10W 4.7kΩ
R 657	117-4721-10	1/10W 4.7kΩ
R 658	117-1021-10	1/10W 1kΩ
R 659	117-3331-10	1/10W 33kΩ
R 660	117-1021-10	1/10W 1kΩ
R 661	116-3321-10	1/8W 3.3kΩ
R 662	117-4711-10	1/10W 470Ω
R 663	117-5131-10	1/10W 51kΩ
R 664	117-3331-10	1/10W 33kΩ
R 665	117-3331-10	1/10W 33kΩ
R 666	117-4731-10	1/10W 47kΩ
R 667	117-4731-10	1/10W 47kΩ
R 668	117-4731-10	1/10W 47kΩ
R 669	117-3331-10	1/10W 33kΩ
R 670	117-3331-10	1/10W 33kΩ
R 671	117-5621-10	1/10W 5.6kΩ
R 672	117-2231-10	1/10W 22kΩ
R 673	117-2731-10	1/10W 27kΩ
R 674	117-3331-10	1/10W 33kΩ
R 675	117-3331-10	1/10W 33kΩ
R 676	117-3331-10	1/10W 33kΩ
R 677	117-3331-10	1/10W 33kΩ
R 700	117-4721-10	1/10W 4.7kΩ
R 703	117-3331-10	1/10W 33kΩ
R 704	117-3331-10	1/10W 33kΩ
R 705	117-5131-10	1/10W 51kΩ
R 706	117-5131-10	1/10W 51kΩ
R 709	117-3331-10	1/10W 33kΩ
R 710	117-3331-10	1/10W 33kΩ
R 711	117-5131-10	1/10W 51kΩ
R 712	117-5131-10	1/10W 51kΩ

REF No.	PART No.	DESCRIPTION
R 800	117-1041-10	1/10W 100kΩ
R 801	117-4731-10	1/10W 47kΩ
R 802	117-3331-10	1/10W 33kΩ
R 803	117-1041-10	1/10W 100kΩ
R 804	117-1021-10	1/10W 1kΩ
R 805	111-2221-91	1/4WS 2.2kΩ
R 806	111-1531-91	1/4WS 15kΩ
R 807	117-5621-10	1/10W 5.6kΩ
R 808	117-1031-10	1/10W 10kΩ
R 809	117-1031-10	1/10W 10kΩ
R 810	117-4731-10	1/10W 47kΩ
R 811	117-1031-10	1/10W 10kΩ
R 812	117-4731-10	1/10W 47kΩ
R 813	117-4721-10	1/10W 4.7kΩ
R 814	117-4721-10	1/10W 4.7kΩ
R 815	117-1021-10	1/10W 1kΩ
R 816	117-6831-10	1/10W 68kΩ
R 817	117-1021-10	1/10W 1kΩ
R 818	117-1021-10	1/10W 1kΩ
R 819	117-1031-10	1/10W 10kΩ
R 820	117-1031-10	1/10W 10kΩ
R 821	117-2231-10	1/10W 22kΩ
R 822	117-4731-10	1/10W 47kΩ
R 824	117-4731-10	1/10W 47kΩ
R 825	117-4731-10	1/10W 47kΩ

REF No.	PART No.	DESCRIPTION
R 828	117-1041-10	1/10W 100kΩ
R 830	117-1041-10	1/10W 100kΩ
R 831	117-1041-10	1/10W 100kΩ
R 832	117-1031-10	1/10W 10kΩ
R 837	117-1031-10	1/10W 10kΩ
R 838	117-4731-10	1/10W 47kΩ
R 841	117-4731-10	1/10W 47kΩ
R 843	117-1041-10	1/10W 100kΩ
R 844	117-4721-10	1/10W 4.7kΩ
R 845	117-4721-10	1/10W 4.7kΩ
R 846	117-4721-10	1/10W 4.7kΩ
R 847	117-4721-10	1/10W 4.7kΩ
R 850	117-2231-10	1/10W 22kΩ
R 851	117-1821-10	1/10W 1.8kΩ
R 852	117-1031-10	1/10W 10kΩ
R 853	117-2721-10	1/10W 2.7kΩ
R 854	117-1031-10	1/10W 10kΩ
R 855	117-1031-10	1/10W 10kΩ
R 856	117-1521-10	1/10W 1.5kΩ
R 857	117-1031-10	1/10W 10kΩ
R 858	117-4721-10	1/10W 4.7kΩ
R 859	117-2721-10	1/10W 2.7kΩ
R 860	117-1031-10	1/10W 10kΩ
R 861	114-2291-11	1W 2.2Ω
R 862	117-1031-10	1/10W 10kΩ

REF No.	PART No.	DESCRIPTION
R 863	117-1021-10	1/10W 1kΩ
R 864	117-1031-10	1/10W 10kΩ
R 865	117-2231-10	1/10W 22kΩ
R 866	111-5611-91	1/4WS 560Ω
R 867	117-4731-10	1/10W 47kΩ
R 868	117-1031-10	1/10W 10kΩ
R 950	117-1091-10	1/10W 1Ω
R 951	117-1091-10	1/10W 1Ω
R 952	111-3311-91	1/4WS 330Ω
R 953	117-1091-10	1/10W 1Ω
R 954	117-1091-10	1/10W 1Ω
R 955	111-3311-91	1/4WS 330Ω
S 850	013-7104-00	
SUP 100	060-0122-20	DSP-141N-S00B
TH 150	002-0228-00	
TH 151	002-0229-01	
VR 100	012-5203-55	4.7kΩ
VR 101	012-5203-56	10kΩ
VR 102	012-5203-55	4.7kΩ
VR 600	012-5203-53	2.2kΩ
VR 601	012-5203-53	2.2kΩ
X 400	061-1066-00	7.2MHz
X 650	060-1025-90	8.0MHz
X 800	060-1025-90	8.0MHz

Connector PWB section

REF No.	PART No.	DESCRIPTION
D 1001	001-0334-30	RL202
D 1002	001-0330-00	1SS119

REF No.	PART No.	DESCRIPTION
F 1000	060-0057-06	10A

REF No.	PART No.	DESCRIPTION
TR 1001	009-0666-62	0.4mH

Switch PWB section for PU-1569A-C

REF No.	PART No.	DESCRIPTION
C 900	178-1042-78	0.1µF
C 901	178-2232-78	0.022µF
C 902	178-2232-78	0.022µF
C 950	176-2201-00	22pF CH
C 951	176-2201-00	22pF CH
C 952	176-2201-00	22pF CH
C 953	176-2201-00	22pF CH
C 954	178-1032-78	0.01µF
C 955	178-1032-78	0.01µF
D 914	001-7031-04	VR-1112H-17
D 915	001-7031-04	VR-1112H-17
D 916	001-7031-04	VR-1112H-17
D 917	001-7031-04	VR-1112H-17
D 918	001-7031-04	VR-1112H-17
D 919	001-7031-04	VR-1112H-17
D 920	001-7031-04	VR-1112H-17
D 921	001-7031-04	VR-1112H-17
D 923	001-7031-04	VR-1112H-17
D 924	001-7031-04	VR-1112H-17
D 925	001-7031-04	VR-1112H-17
D 926	001-7031-04	VR-1112H-17
D 927	001-7031-04	VR-1112H-17
D 928	001-7031-04	VR-1112H-17
D 929	001-7031-04	VR-1112H-17
D 930	001-7031-04	VR-1112H-17
D 931	001-7031-04	VR-1112H-17
D 932	001-7031-04	VR-1112H-17
D 933	001-7031-04	VR-1112H-17
D 934	001-7031-04	VR-1112H-17
D 935	001-7031-04	VR-1112H-17
D 936	001-7031-04	VR-1112H-17
D 937	001-7031-04	VR-1112H-17
D 938	001-7031-04	VR-1112H-17
D 939	001-0528-31	MA8056-L
D 939	001-0574-31	DTZ5.6A
D 939	001-4300-31	HZU 5.6B1
D 940	001-0528-31	MA8056-L
D 940	001-0574-31	DTZ5.6A

REF No.	PART No.	DESCRIPTION
D 940	001-4300-31	HZU 5.6B1
D 943	001-0516-00	MA111
D 944	001-0516-00	MA111
D 945	001-0516-00	MA111
D 946	001-0516-00	MA111
D 947	001-0516-00	MA111
D 948	001-0516-00	MA111
D 949	001-0412-19	GL-3TR8
D 950	001-0516-00	MA111
D 951	001-0516-00	MA111
D 1000	001-7035-00	LB3336-N
D 1001	001-7035-00	LB3336-N
D 1002	001-7031-04	VR-1112H-17
IC 900	051-6001-01	µPD16431AGC-7ET
R 914	117-1221-10	1/10W 1.2kΩ
R 915	117-1221-10	1/10W 1.2kΩ
R 916	117-1221-10	1/10W 1.2kΩ
R 917	117-1221-10	1/10W 1.2kΩ
R 918	117-1521-10	1/10W 1.5kΩ
R 919	117-1821-10	1/10W 1.8kΩ
R 920	117-1521-10	1/10W 1.5kΩ
R 921	117-1031-10	1/10W 10kΩ
R 922	117-1821-10	1/10W 1.8kΩ
R 923	117-1041-10	1/10W 100kΩ
R 924	117-1521-10	1/10W 1.5kΩ
R 925	117-1521-10	1/10W 1.5kΩ
R 926	117-1031-10	1/10W 10kΩ
R 927	117-2721-10	1/10W 2.7kΩ
R 928	117-2721-10	1/10W 2.7kΩ
R 929	117-1221-10	1/10W 1.2kΩ
R 930	117-1221-10	1/10W 1.2kΩ
R 931	117-1221-10	1/10W 1.2kΩ
R 932	117-1221-10	1/10W 1.2kΩ
R 933	117-1221-10	1/10W 1.2kΩ
R 934	117-1221-10	1/10W 1.2kΩ
R 935	117-2221-10	1/10W 2.2kΩ
R 936	117-2221-10	1/10W 2.2kΩ
R 950	117-2221-10	1/10W 2.2kΩ

REF No.	PART No.	DESCRIPTION
R 951	117-2221-10	1/10W 2.2kΩ
R 952	117-2221-10	1/10W 2.2kΩ
R 953	117-2221-10	1/10W 2.2kΩ
R 1000	117-1521-10	1/10W 1.5kΩ
R 1001	117-1521-10	1/10W 1.5kΩ
R 1002	117-1821-10	1/10W 1.8kΩ
R 1003	117-1521-10	1/10W 1.5kΩ
R 1004	117-1521-10	1/10W 1.5kΩ
R 1005	117-1821-10	1/10W 1.8kΩ
S 900	013-6302-01	SKQMAL
S 901	013-6302-01	SKQMAL
S 902	013-6302-01	SKQMAL
S 903	013-6302-01	SKQMAL
S 904	013-6302-01	SKQMAL
S 905	013-6302-01	SKQMAL
S 906	013-6302-01	SKQMAL
S 907	013-6302-01	SKQMAL
S 908	013-6302-01	SKQMAL
S 909	013-6302-01	SKQMAL
S 910	013-6302-01	SKQMAL
S 911	013-6302-01	SKQMAL
S 912	013-6302-01	SKQMAL
S 913	013-6302-01	SKQMAL
S 914	013-6302-01	SKQMAL
S 915	013-6302-01	SKQMAL
S 916	013-6302-01	SKQMAL
S 917	013-6302-01	SKQMAL
S 918	013-6302-01	SKQMAL
S 919	013-6302-01	SKQMAL
S 920	013-6302-01	SKQMAL
S 921	013-6302-01	SKQMAL
S 922	013-6302-01	SKQMAL
S 923	013-6302-01	SKQMAL
S 924	013-6302-01	SKQMAL
S 925	013-6302-01	SKQMAL
VR 900	016-0012-00	

Switch PWB section for PU-1582A-C

REF No.	PART No.	DESCRIPTION
C 900	178-1042-78	0.1µF
C 901	178-2232-78	0.022µF
C 902	178-2232-78	0.022µF
C 903	178-1032-78	0.01µF
C 904	178-1032-78	0.01µF
C 905	176-2201-00	22pF CH
C 906	176-2201-00	22pF CH

REF No.	PART No.	DESCRIPTION
C 907	176-2201-00	22pF CH
C 908	176-2201-00	22pF CH
D 914	001-7031-04	VR-1112H-17
D 915	001-7031-04	VR-1112H-17
D 916	001-7031-04	VR-1112H-17
D 917	001-7031-04	VR-1112H-17
D 918	001-7031-04	VR-1112H-17

REF No.	PART No.	DESCRIPTION
D 919	001-7031-04	VR-1112H-17
D 920	001-7031-04	VR-1112H-17
D 921	001-7031-04	VR-1112H-17
D 922	001-7031-04	VR-1112H-17
D 923	001-7031-04	VR-1112H-17
D 924	001-7031-04	VR-1112H-17
D 925	001-7031-04	VR-1112H-17

REF No.	PART No.	DESCRIPTION
D 926	001-7031-04	VR-1112H-17
D 927	001-7031-04	VR-1112H-17
D 928	001-7031-04	VR-1112H-17
D 929	001-7031-04	VR-1112H-17
D 930	001-7031-04	VR-1112H-17
D 931	001-7031-04	VR-1112H-17
D 932	001-7031-04	VR-1112H-17
D 933	001-7031-04	VR-1112H-17
D 935	001-7031-04	VR-1112H-17
D 936	001-7031-04	VR-1112H-17
D 938	001-7031-04	VR-1112H-17
D 939	001-7031-04	VR-1112H-17
D 940	001-7031-04	VR-1112H-17
D 941	001-7021-03	VR1101F
D 943	001-0516-00	MA111
D 944	001-0516-00	MA111
D 945	001-0516-00	MA111
D 946	001-0516-00	MA111
D 947	001-0516-00	MA111
D 948	001-0516-00	MA111
D 949	001-7025-00	SLP-144B-51
D 950	001-0516-00	MA111
D 951	001-0516-00	MA111
D 952	001-0528-31	MA8056-L
D 952	001-0574-31	DTZ5.6A
D 952	001-4300-31	HZU 5.6B1
D 953	001-0528-31	MA8056-L
D 953	001-0574-31	DTZ5.6A
D 953	001-4300-31	HZU 5.6B1
D 990	001-7035-00	LB3336-N
D 991	001-7035-00	LB3336-N

REF No.	PART No.	DESCRIPTION
IC 900	051-6001-01	μPD16431AGC-7ET
R 914	117-1221-10	1/10W 1.2kΩ
R 915	117-1221-10	1/10W 1.2kΩ
R 916	117-1521-10	1/10W 1.5kΩ
R 917	117-1521-10	1/10W 1.5kΩ
R 918	117-1521-10	1/10W 1.5kΩ
R 919	117-1521-10	1/10W 1.5kΩ
R 920	117-1221-10	1/10W 1.2kΩ
R 921	117-1031-10	1/10W 10kΩ
R 922	117-1221-10	1/10W 1.2kΩ
R 923	117-1041-10	1/10W 100kΩ
R 924	117-1221-10	1/10W 1.2kΩ
R 925	117-1221-10	1/10W 1.2kΩ
R 926	117-1031-10	1/10W 10kΩ
R 927	117-1221-10	1/10W 1.2kΩ
R 928	117-1221-10	1/10W 1.2kΩ
R 929	117-1521-10	1/10W 1.5kΩ
R 930	117-1521-10	1/10W 1.5kΩ
R 931	117-1821-10	1/10W 1.8kΩ
R 932	117-1821-10	1/10W 1.8kΩ
R 933	117-1821-10	1/10W 1.8kΩ
R 934	117-2221-10	1/10W 2.2kΩ
R 935	117-1521-10	1/10W 1.5kΩ
R 936	117-1521-10	1/10W 1.5kΩ
R 937	117-2221-10	1/10W 2.2kΩ
R 938	117-2221-10	1/10W 2.2kΩ
R 939	117-1521-10	1/10W 1.5kΩ
R 940	117-2221-10	1/10W 2.2kΩ
R 941	117-2221-10	1/10W 2.2kΩ
R 942	117-2221-10	1/10W 2.2kΩ
R 943	117-2221-10	1/10W 2.2kΩ

REF No.	PART No.	DESCRIPTION
R 990	117-1821-10	1/10W 1.8kΩ
R 991	117-1521-10	1/10W 1.5kΩ
R 992	117-1821-10	1/10W 1.8kΩ
R 993	117-1821-10	1/10W 1.8kΩ
R 994	117-1521-10	1/10W 1.5kΩ
R 995	117-1821-10	1/10W 1.8kΩ
S 900	013-6302-01	SKQMAL
S 901	013-6302-01	SKQMAL
S 902	013-6302-01	SKQMAL
S 903	013-6302-01	SKQMAL
S 905	013-6302-01	SKQMAL
S 906	013-6302-01	SKQMAL
S 907	013-6302-01	SKQMAL
S 908	013-6302-01	SKQMAL
S 909	013-6302-01	SKQMAL
S 912	013-6302-01	SKQMAL
S 913	013-6302-01	SKQMAL
S 914	013-6302-01	SKQMAL
S 915	013-6302-01	SKQMAL
S 916	013-6302-01	SKQMAL
S 917	013-6302-01	SKQMAL
S 918	013-6302-01	SKQMAL
S 919	013-6302-01	SKQMAL
S 920	013-6302-01	SKQMAL
S 921	013-6302-01	SKQMAL
S 922	013-6302-01	SKQMAL
S 923	013-6302-01	SKQMAL
S 924	013-6302-01	SKQMAL
S 925	013-6302-01	SKQMAL
VR 900	016-0012-01	

Switch PWB section for PU-1582A-D

REF No.	PART No.	DESCRIPTION
C 900	178-1042-78	0.1μF
C 901	178-2232-78	0.022μF
C 902	178-2232-78	0.022μF
C 903	178-1032-78	0.01μF
C 904	178-1032-78	0.01μF
D 900	001-7031-03	BG1112H-650
D 901	001-7031-03	BG1112H-650
D 902	001-7031-03	BG1112H-650
D 903	001-7031-03	BG1112H-650
D 904	001-7031-03	BG1112H-650
D 905	001-7031-03	BG1112H-650
D 906	001-7031-03	BG1112H-650
D 907	001-7031-03	BG1112H-650
D 908	001-7031-03	BG1112H-650
D 909	001-7031-03	BG1112H-650
D 910	001-7031-03	BG1112H-650
D 911	001-7031-03	BG1112H-650
D 912	001-7031-03	BG1112H-650
D 913	001-7031-03	BG1112H-650
D 914	001-7031-03	BG1112H-650
D 915	001-7031-03	BG1112H-650
D 916	001-7031-03	BG1112H-650
D 917	001-7031-03	BG1112H-650
D 918	001-7031-03	BG1112H-650
D 919	001-7031-03	BG1112H-650
D 920	001-7031-03	BG1112H-650
D 921	001-7031-03	BG1112H-650
D 922	001-7034-00	BG1102W-640
D 923	001-7034-00	BG1102W-640
D 924	001-7034-00	BG1102W-640
D 925	001-7034-00	BG1102W-640
D 926	001-7034-00	BG1102W-640
D 927	001-7034-00	BG1102W-640
D 928	001-7031-03	BG1112H-650
D 929	001-7031-03	BG1112H-650
D 930	001-7031-03	BG1112H-650
D 931	001-7031-03	BG1112H-650
D 932	001-7031-03	BG1112H-650
D 933	001-7031-03	BG1112H-650
D 935	001-7031-03	BG1112H-650
D 936	001-7031-03	BG1112H-650
D 938	001-7031-03	BG1112H-650
D 939	001-7031-03	BG1112H-650
D 940	001-7031-03	BG1112H-650
D 941	001-7021-00	BG1101F
D 943	001-0516-00	MA111
D 944	001-0516-00	MA111
D 945	001-0516-00	MA111
D 946	001-0516-00	MA111

REF No.	PART No.	DESCRIPTION
D 947	001-0516-00	MA111
D 948	001-0516-00	MA111
D 949	001-7025-00	SLP-144B-51
D 950	001-0516-00	MA111
D 951	001-0516-00	MA111
D 954	001-7031-03	BG1112H-650
D 980	001-0516-00	MA111
D 981	001-0516-00	MA111
D 982	001-0516-00	MA111
D 983	001-0516-00	MA111
D 984	001-0516-00	MA111
D 985	001-0516-00	MA111
D 986	001-0516-00	MA111
D 987	001-0516-00	MA111
IC 900	051-6001-01	μPD16431AGC-7ET
R 900	117-1021-10	1/10W 1kΩ
R 901	117-1021-10	1/10W 1kΩ
R 902	117-1021-10	1/10W 1kΩ
R 903	117-1021-10	1/10W 1kΩ
R 904	117-1021-10	1/10W 1kΩ
R 905	117-1021-10	1/10W 1kΩ
R 906	117-1021-10	1/10W 1kΩ
R 907	117-1021-10	1/10W 1kΩ
R 908	117-1021-10	1/10W 1kΩ
R 909	117-1021-10	1/10W 1kΩ
R 910	117-1021-10	1/10W 1kΩ
R 911	117-1021-10	1/10W 1kΩ
R 912	117-1021-10	1/10W 1kΩ
R 913	117-1021-10	1/10W 1kΩ
R 914	117-1521-10	1/10W 1.5kΩ
R 915	117-1521-10	1/10W 1.5kΩ
R 916	117-1521-10	1/10W 1.5kΩ
R 917	117-1521-10	1/10W 1.5kΩ
R 918	117-1521-10	1/10W 1.5kΩ
R 919	117-1521-10	1/10W 1.5kΩ
R 920	117-1521-10	1/10W 1.5kΩ
R 921	117-1031-10	1/10W 10kΩ
R 922	117-1521-10	1/10W 1.5kΩ
R 923	117-1041-10	1/10W 100kΩ
R 924	117-1521-10	1/10W 1.5kΩ
R 925	117-1821-10	1/10W 1.8kΩ
R 926	117-1031-10	1/10W 10kΩ
R 927	117-1821-10	1/10W 1.8kΩ
R 928	117-1821-10	1/10W 1.8kΩ
R 929	117-1521-10	1/10W 1.5kΩ
R 930	117-1521-10	1/10W 1.5kΩ
R 931	117-1521-10	1/10W 1.5kΩ
R 932	117-1521-10	1/10W 1.5kΩ
R 933	117-1521-10	1/10W 1.5kΩ

REF No.	PART No.	DESCRIPTION
R 934	117-1521-10	1/10W 1.5kΩ
R 935	117-1521-10	1/10W 1.5kΩ
R 936	117-1521-10	1/10W 1.5kΩ
R 937	117-1521-10	1/10W 1.5kΩ
R 938	117-1521-10	1/10W 1.5kΩ
R 939	117-1521-10	1/10W 1.5kΩ
R 944	117-1521-10	1/10W 1.5kΩ
R 945	117-1521-10	1/10W 1.5kΩ
R 946	117-1521-10	1/10W 1.5kΩ
R 947	117-1521-10	1/10W 1.5kΩ
R 948	117-1521-10	1/10W 1.5kΩ
R 949	117-1521-10	1/10W 1.5kΩ
R 950	117-1521-10	1/10W 1.5kΩ
R 951	117-1521-10	1/10W 1.5kΩ
R 952	117-1521-10	1/10W 1.5kΩ
R 953	117-1521-10	1/10W 1.5kΩ
R 954	117-1221-10	1/10W 1.2kΩ
R 955	117-1221-10	1/10W 1.2kΩ
R 956	117-1821-10	1/10W 1.8kΩ
R 957	117-1821-10	1/10W 1.8kΩ
R 958	117-1821-10	1/10W 1.8kΩ
R 959	117-1221-10	1/10W 1.2kΩ
R 960	117-1221-10	1/10W 1.2kΩ
S 900	013-6302-01	SKQMAL
S 901	013-6302-01	SKQMAL
S 902	013-6302-01	SKQMAL
S 903	013-6302-01	SKQMAL
S 905	013-6302-01	SKQMAL
S 906	013-6302-01	SKQMAL
S 907	013-6302-01	SKQMAL
S 908	013-6302-01	SKQMAL
S 909	013-6302-01	SKQMAL
S 912	013-6302-01	SKQMAL
S 913	013-6302-01	SKQMAL
S 914	013-6302-01	SKQMAL
S 915	013-6302-01	SKQMAL
S 916	013-6302-01	SKQMAL
S 917	013-6302-01	SKQMAL
S 918	013-6302-01	SKQMAL
S 919	013-6302-01	SKQMAL
S 920	013-6302-01	SKQMAL
S 921	013-6302-01	SKQMAL
S 922	013-6302-01	SKQMAL
S 923	013-6302-01	SKQMAL
S 924	013-6302-01	SKQMAL
S 925	013-6302-01	SKQMAL
VR 900	016-0012-01	